

10/092,773

Amendments to the Specification:

Please delete in their entirety the first six of the seven paragraphs of the Summary of the Invention as amended by the Non-Fee Amendment Under Rule 111 Filed With Request For Continued Examination filed on October 30, 2003.

Please amend the seventh of those paragraphs as follows:

The present invention is ~~also~~ a method for detecting a blockage in the outlet of a purged enclosure having an outlet monitoring device in the outlet. The outlet monitoring device has a sealed chamber with only one inlet, an outlet, only one path between the only one inlet and the outlet through which the fluid can flow and a flow restrictor in the only one inlet and a flow restrictor in the outlet through which a purging fluid can flow. The method flows the purging fluid into the enclosure; monitors at a first differential pressure switch the difference in pressure between the pressure in the enclosure and the sealed chamber that results from the purging fluid flow through the first restrictor of the outlet device; monitors at a second differential pressure switch the difference in pressure between the sealed chamber pressure and the pressure outside of the enclosure that results from the purging fluid flow through the second restrictor of the outlet device; and determines that either the first or second restrictors are blocked when the second or the first switches, respectively, are open when the purging fluid flows.

Please add at the end of the seventh of those paragraphs as amended above the following new paragraphs:

The present invention is also an instrument that has an enclosure having an opening through which a fluid can flow; first and second differential pressure switches; and a sealed chamber in the opening, the chamber having only one inlet, an outlet and only one path between the only one inlet and the outlet through which the fluid can flow. The sealed chamber has first and

10/092,773

second restrictors through which the fluid can flow; and means for transferring the pressure in the sealed chamber to the first and second differential pressure switches, the pressure in the enclosure to the first switch and the pressure at the sealed chamber outlet to the second switch. Each of the first and second differential pressure switches having a predetermined actuation pressure and each of the first and second restrictors having a resistance to flow selected so that the pressure drop across the first restrictor for a given rate of fluid flow through the first restrictor matches the predetermined actuation pressure of the first switch and the pressure drop across the second restrictor for a given rate of fluid flow through the second restrictor matches the predetermined actuation pressure of the second switch.

The present invention is also an instrument that has an enclosure having an opening through which a fluid can flow; first and second differential pressure switches; and a sealed chamber in the opening, the chamber having only one inlet, an outlet and only one path between the only one inlet and the outlet through which the fluid can flow. The sealed chamber has first and second restrictors through which the fluid can flow; and means for transferring the pressure in the sealed chamber to the first and second differential pressure switches, the pressure in the enclosure to the first switch and the pressure at the sealed chamber outlet to the second switch. Each of the first and second differential pressure switches having a settable actuation pressure and the first pressure switch settable actuation pressure is set to match the pressure drop through the first restrictor for a given rate of fluid flow through the first restrictor and the second pressure switch settable actuation pressure is set to match the pressure drop through the second restrictor for a given rate of fluid flow through the second restrictor.

The present invention is also the combination of an instrument that has an enclosure having an opening through

10/092,773

which a fluid can flow; and a flow sensor. The flow sensor has first and second differential pressure switches; and a sealed chamber in the opening, the chamber having only one inlet, an outlet and only one path between the only one inlet and the outlet through which the fluid can flow. The sealed chamber has first and second restrictors through which the fluid can flow; and means for transferring the pressure in the sealed chamber to the first and second differential pressure switches, the pressure in the enclosure to the first switch and the pressure at the sealed chamber outlet to the second switch. Each of the first and second differential pressure switches having a predetermined actuation pressure and each of the first and second restrictors having a resistance to flow selected so that the pressure drop across the first restrictor for a given rate of fluid flow through the first restrictor matches the predetermined actuation pressure of the first switch and the pressure drop across the second restrictor for a given rate of fluid flow through the second restrictor matches the predetermined actuation pressure of the second switch.

The present invention is also the combination of an instrument that has an enclosure having an opening through which a fluid can flow; and a flow sensor. The flow sensor has first and second differential pressure switches; and a sealed chamber in the opening, the chamber having only one inlet, an outlet and only one path between the only one inlet and the outlet through which the fluid can flow. The sealed chamber has first and second restrictors through which the fluid can flow; and means for transferring the pressure in the sealed chamber to the first and second differential pressure switches, the pressure in the enclosure to the first switch and the pressure at the sealed chamber outlet to the second switch. Each of the first and second differential pressure switches have a settable actuation pressure and the first pressure switch settable actuation pressure is set to match the pressure drop through the first restrictor for a given rate of fluid flow through the first

10/092,773

restrictor and the second pressure switch settable actuation pressure is set to match the pressure drop through the second restrictor for a given rate of fluid flow through the second restrictor.